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LABORATORY ANIMAL WELFARE

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LABORATORY ANIMAL WELFARE

SUPPLEMENT III

JANUARY 1987

63 SELECTED CITATIONS

Compiled by

Fritz P. Gluckstein, D.V.M., M.L.S.

Coordinator for Veterinary Affairs

LABORATORY ANIMAL WELFARE

This is the third supplement to a selective annotated bibliography on laboratory animal welfare issued in January 1984, SBS No. 1984-1. The first supplement was issued in January 1985, SBS No. 1985-1, and the second supplement in January 1986, SBS No. 1986-1.

Items were selected for inclusion because they were judged to be representative of the most significant of those providing recent information or because they were considered to be useful guides to additional literature on the subject. The period covered is October 1985 - October 1986. A number of items published during the first three quarters of 1985 have also been included. Translations of foreign language titles are set in brackets. Parts of annotations that are direct quotations from the source document are indicated by quotation marks.

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CONTENTS

JOURNAL ARTICLES		Page
I.	Historical Aspects	1
II.	Ethical and Philosophic Aspects	2
III.	Animal Rights	4
IV.	Laws, Regulations, Codes, and Guidelines	5
V.	Animal Experimentation in Specific Disciplines	8
VI.	Reduction of Animal Use and Alternative Methods	9
VII.	Other Aspects	11
MONOGRAPHS		15

JOURNAL ARTICLES

I. Historical Aspects

Dreifuss JJ
[Moritz Schiff and vivisection.]
Gesnerus 1985;42(3-4):289-303 (in French, English summary)
An essay on the physiologist Moritz Schiff's (1823-96) controversy with antivivisectionists in Florence and his good relations with the Animal Protection Society in Geneva.
30 references

Gossel PP
William Henry Welch and the antivivisection legislation in the District of Columbia, 1896-1900.
J Hist Med Allied Sci 1985 Oct;40(4):397-419
The controversy between antivivisectionists and medical scientists in Washington, DC, which was a major location for animal experimentation at the turn of the century.
68 references

Silver IA
Animals and medicine. The Long Fox memorial lecture.
Bristol Med Chir J 1985 Jul;100(375):62-7
An historical essay on the role of animals in clinical medicine and medical research. Included is a discussion of current animal experimentation and the animal rights movement.

II. Ethical and Philosophic Aspects

Christensen HN
Children's stories and adult attitudes toward the use of animals in biomedical research and testing.
Perspect Biol Med 1986 Summer;29(4):573-87
An essay on the effect of children's animal stories such as Black Beauty or Charlotte's Web on adult attitudes toward animal experimentation. Guidelines for authors of such stories are proposed. 38 references

Cohen C
The case for the use of animals in biomedical research.
N Engl J Med 1986 Oct 2;315(14):865-70
The author, a philosopher, opposes those who argue that animal experimentation violates animal rights and imposes much avoidable suffering. 17 references

Forth W
[Animal protection and ethics.]
Fortschr Med 1985 Oct 17;103(39):68-9 (in German)
The writer deals with the necessity of animal experimentation in university and industrial laboratories and decries the efforts to promote nonanthropocentric ethics.

King FA
Philosophical and practical issues in animal research involving pain and stress.
Ann NY Acad Sci 1986;467:405-9
The author takes the hierarchic view of pain which holds that we are justified to do to lower animals what we would not do to higher animals and to higher animals what we would not do to man. He rejects the concept of animal rights and stresses the need to inform the public about the necessity of animal experimentation. 7 references

Lockwood R
Anthropomorphism is not a four-letter word.
Adv Anim Welfare Sci 1985:185-99
The author describes various forms of anthropomorphism and illustrates its use as a scientific tool in research areas such as animal learning, animal communication, comparative psychopathology, the human-animal bond, applied ethology, and animal welfare. 26 references

Miller NE
The morality and humaneness of animal research on stress and pain.
Ann NY Acad Sci 1986;467:402-4
The author poses the question whether it is moral to subject animals to stress and pain in order to alleviate human suffering and answers in the affirmative.

Prentice ED, Zucker IH, Jameton A
Ethics of animal welfare in research: the institution's attempt to achieve appropriate social balance.
Physiologist 1986 Apr;29(2):17, 19-21
"The purpose of this paper is to describe the ethical principles governing research involving animals adopted by the University of Nebraska Medical Center....These principles provide guidance to investigators and serve as protocol review criteria employed by the Institutional Animal Care and Use Committee." 6 references

Rollin BE
Animal pain
Adv Anim Welfare Sci 1985:91-106
A discussion of the moral, philosophic and conceptual issues of pain in experimental animals. 16 references

Sharman W
Ethical aspects of animal experimentation.
Adv Anim Welfare Sci 1985:87-90
In the course of a discussion of the ethics of animal experimentation the author questions the use of laboratory animals in efforts to combat civilization-associated diseases caused by man's unhealthful life style. He also questions the necessity of marketing over 1000 new chemicals annually, each of which requires 2000-6000 animals for safety testing. 4 references

Tannenbaum J, Rowan AN
Rethinking the morality of animal research.
Hastings Cent Rep 1985 Oct;15(5):32-43
The writers, a lawyer and a biochemist, after summarizing the major ethical positions on the moral status of animals, propose principles for animal experimentation. They discuss the research animal's "nature" and deal with various justifications for laboratory animal use. 53 references

Zbinden G
Ethical considerations in toxicology.
Food Chem Toxicol 1985 Feb;23(2):137-8
An examination of the toxicologist's ethical conflict between his professional duty to protect consumers against injury and his responsibility toward laboratory animals used in carrying out this duty.

III. Animal Rights

Jacobs FS
The veterinarian and animal rights.
J Am Vet Med Assoc 1986 Jun 1;188(11):1265-6
The author takes issue with those who oppose the use of pound animals in biomedical research. He believes that "animals should have only one right, and that is the right to humane treatment."

Rowley J
Animal rights. (letter)
J Am Vet Med Assoc 1986 Aug 15;189(4):406-7
A reply to Jacobs and a rebuttal.

Shapiro HM
Animal rights and biomedical research: no place for complacency.
Anesthesiology 1986 Feb;64(2):142-6
A brief review of the historical perspectives of animal experimentation and a discussion of animal rights and welfare movements, government reaction, and the role of the clinician in assuring the continued use of animals in medical research.
5 references

Rackow H
Animal welfare and biomedical research. (letter)
Anesthesiology 1986 Oct;65(4):442-3
A response to Shapiro. 3 references

Tannenbaum J
Animal rights: some guideposts for the veterinarian.
J Am Vet Med Assoc 1986 Jun 1;188(11):1258-63
The author calls for rejection of the animal rights movement without abandoning the concept of animal rights.
56 references

Jacobs FS
Animal rights. (letter)
J Am Vet Med Assoc 1986 Aug 15;189(4):406
A reply to Tannenbaum and his rebuttal.

Rollin BE
Controversy over position on animal rights. (letter)
J Am Vet Med Assoc 1986 Sep 15;189(6):602-3, 638
A reply to Tannenbaum and his rebuttal.

Rowley J
Animal Rights. (letter)
J Am Vet Med Assoc 1986 Aug 15;189(4):406-7
A reply to Tannenbaum and his rebuttal.

IV. Laws, Regulations, Codes, and Guidelines

Appler WD
View from the Nation's Capital. Animal research: public pressure versus research needs.
J Clin Psychopharmacol 1986 Oct;6(5):305-8

An update on the laboratory animal controversy. The author, an attorney, discusses Congressional and regulatory action, activities of animal welfare organizations, and litigation concerning animal experimentation.

Draft guidelines for veterinary surgeons employed in research institutes.
Vet Rec 1986 Jan 11;118(2):32-3

A draft prepared by the British Laboratory Animal Veterinary Association in response to a legislative proposal giving responsibility for the health and welfare of animals in research institutions to "named veterinarians".

Dresser R
Regulation of animal experimentation. (letter)
JAMA 1986 Mar 28;255(12):1567-8

A reply to Overcast TD, Sales BD, "Regulation of animal experimentation." [JAMA 1985 Oct 11;254(14):1944-9] (see SBS No. 1986-1,p.4). 4 references. Followed by a response by Overcast and Sales.

Ethical standards and guidelines for animal experiments in toxinological research.
Toxicon 1986;24(4):327-30

Standards for animal experimentation adopted by the International Society on Toxinology (IST). Investigators submitting papers to Toxicon, the Society's journal, are required to meet these standards.

Freudiger U
[Public initiative for the abolition of vivisection, called the "Weber initiative".]
Schweiz Arch Tierheilkd 1985 Oct;127(10):635-49 (in German, English summary)

The author discusses Swiss animal welfare legislation and compares it with that of France and West Germany. While advocating reduction of laboratory animal use, he urges rejection of the "Weber Initiative" which calls for a ban on experiments using vertebrate as well as invertebrate animals.

Heath M
British law relating to experimental animals - its provisions and restrictions.
Anim Technol 1986 Aug;37(2):131-6
A detailed discussion of the Cruelty to Animals Act, the basis of recently enacted British laboratory animal welfare legislation. The Act applies to all experiments that may cause pain in vertebrates.

Hollands C
The Animals (scientific procedures) Act 1986.
Lancet 1986 Jul 5;2(8497):32-3
A summary and discussion of recent British legislation concerning the welfare of laboratory animals. 8 references

Howard-Jones N
A CIOMS ethical code for animal experimentation.
WHO Chron 1985;39(2):51-6
International Guiding Principles for Biomedical Research Involving Animals - why and how they were developed by the Council for International Organizations of Medical Sciences (CIOMS). 7 references

Lingk W
Registration requirements within the German Federal Health Office.
Food Chem Toxicol 1985 Feb;23(2):179-81
A discussion of appropriate test methods for irritants, corrosives, pesticides, and cosmetics and a report on the strategies of the West German Health Office to reduce test animal use.

Overcast TD
Regulation of animal experimentation: an apology. (letter)
JAMA 1986 Mar 28;255(12):1568-9
An apology for having used portions of a publication by others in the article "Regulation of animal experimentation." [JAMA 1985 Oct 11;254(14):1944-9] (see SBS No. 1986-1, p.4).

Position of the American Heart Association on research animal use.
A statement for health professionals by a task force appointed by the Board of Directors of the American Heart Association.
Hypertension 1985 Jul-Aug;7(4):655-6
"The American Heart Association takes the position that the responsible use of animals is essential and necessary to biomedical research and education in the prevention, reduction, and treatment of diseases of the heart and blood vessels." The requirements concerning animal use to be met by American Heart Association grantee institutions are listed.

Sanford J, et al
Guidelines for the recognition and assessment of pain in animals.
Vet Rec 1986 Mar 22;118(12):334-8
Guidelines prepared by the Association of Veterinary Teachers and Research Workers in response to British legislative proposals concerning the welfare of laboratory animals. 8 references

Soave O, Tufts NR
The impact of the GLPs on lab animal research.
Lab Anim (New York) 1986 Mar;15(2):39-45
A summary of the Food and Drug Administration's Good Laboratory Practice (GLP) rules as they apply to laboratory animal use and care. 2 references

The veterinary surgeon and the Animals (Scientific Procedures) Act 1986.
Vet Rec 1986 Aug 9;119(6):124-5
A discussion of the veterinary profession's role within the new British laboratory animal welfare legislation. The legislation provides for a "named veterinarian" in each research establishment.

V. Animal Experimentation in Specific Disciplines

Giannelli MA
Three blind mice, see how they run: a critique of behavioral research with animals.
Adv Anim Welfare Sci 1985:109-64
Dr. Giannelli, a psychologist, reviews past and current uses of animals in psychologic research. He opposes animal experimentation unless it is noninvasive or is done for the direct benefit of the animals involved. 118 references

Greenwald GS
ACDP survey on use of animals in teaching physiology.
Physiologist 1985 Dec;28(6):478-80
A survey by the Association of Chairmen of Departments of Physiology (ACDP), on behest of the Office of Technology Assessment of the U.S. Congress, of the use of animals and alternatives in teaching physiology.

Upton AC
The place of laboratory animal testing in occupational and preventive medicine.
Am J Ind Med 1986;9(1):69-71
The writer reviews current carcinogenicity testing and concludes that at our present state of knowledge animal testing, despite its imperfections, is still necessary for the screening of carcinogens and other toxicants. 5 references

VI. Reduction of Animal Use and Alternative Methods

Balls M
Replacing experiments on laboratory animals.
Trends Biochem Sci 1986 Jun;11(6):236-8
An article advocating reduction, refinement, and replacement in animal experimentation. 6 references

Gallup GG Jr, Suarez SD
Alternatives to the use of animals in psychological research.
Am Psychol 1985 Oct;40(10):1104-11
The authors review the rationale and extent of animal use in psychologic research and discuss various proposed alternatives. They conclude that at present there are no alternatives to the use of animals in behavioral research. 69 references

Goerttler K, Lohrke H
[Management and possible ways of utilization of a tumor bank. An alternative or a means to reduce animal experimentation?]
Pathologe 1986 Jan;7(1):50-8 (in German)
In experimental pathology a tumor bank may obviate the need for animal passage and provide models permitting the use of fewer laboratory animals. 16 references

Kelly JA
Alternatives to aversive procedures with animals in the psychology teaching setting.
Adv Anim Welfare Sci 1985:165-84
The author feels that animal welfare efforts have focused on biomedical research and testing while paying less attention to the use of animals in teaching. He discusses the treatment of animals in psychology instruction and deals with practical alternatives to methods that cause pain and distress. 20 references

Miller JL
In vitro methods not likely to replace animal testing of drugs.
Clin Pharm 1986 May;5(5):351, 354
The author reviews the use of in vitro methods in toxicology testing and drug activity testing and concludes that such methods will reduce but not eliminate the use of laboratory animals. 7 references

Reduction of the use of animals in the development and control of biological products.
Lancet 1985 Oct 19;2(8460):900-2

Report on a conference convened by the International Association for Biological Standardisation (IABS). The conferees discussed alternative methods for testing of biologicals, hormones, and antibiotics.

Roswell HC, McWilliam AA
The search for alternatives: the Canadian initiative.
ATLA (Alternatives to Laboratory Animals) 1986 Mar;13(2):208-11

A report on Canadian efforts to find alternatives to animal experimentation. The authors describe the efforts of scientific organizations such as the Canadian Council on Animal Care and the National Sciences and Engineering Research Council, lay organizations such as the Animal Welfare Foundation of Canada as well as those of individual scientists.

VII. Other Aspects

Bateson P
When to experiment on animals.
New Scientist 1986 Feb 20;109(1496):30-2
The author believes that "conflicts of interest between experimenters and their critics might be resolved by weighing up the degree of suffering against the value of the research." He discusses how this may be accomplished.

Boura AL
The need to use animals for medical and biological research.
Aust Fam Physician 1986 Mar;15(3):337-54
A discussion of advances in human and veterinary medicine based on animal experimentation. The article is written to assist physicians in answering questions of patients concerned about the ethics of laboratory animal use. 19 references

Fidelman ML, Mikulecky DC
The imbalance between experiment and theory in biology; the need for theory-directed modeling.
Adv Anim Welfare Sci 1985:203-20
An article expounding the premise that it is necessary to redirect significant resources from experimental approaches to theory-directed modeling thereby improving the quality of research and reducing laboratory animal use. Network thermodynamics modeling and computer simulation are discussed. 31 references

Flecknell PA
Recognition and alleviation of pain in animals.
Adv Anim Welfare Sci 1985:61-77
Includes a discussion of the use and dosage of various analgesic drugs. 58 references

Fox MW
Harming healthy animals. (letter)
J Am Vet Med Assoc 1986 Jul 1;189(1):4,6
The writer argues against the use of live animals in veterinary surgery training.

Bruss ML
Status of veterinarians. (letter)
J Am Vet Med Assoc 1986 Sep 1;189(5):496-7
A reply to Fox and a rebuttal.

Government, media and the animal issue.
Fed Proc 1986 Oct;45(11):7A-14A (Part I)
" " Nov;45(12):9A-16A (Part II)
An edited transcript of a symposium held at the 1986 Annual Meeting of the Federation of American Societies for Experimental Biology (FASEB). The purpose of the symposium was "...to tell (scientists) in practical terms how to present (their) views to government and the media, and how to work with government and the media, in pursuit of (their) right to use experimental animals...."

Holden C
A pivotal year for lab animal welfare. (news)
Science 1986 Apr 11;232(4747):147-50
A discussion of recent animal welfare legislation and the activities of animal liberationists. The author believes "tighter regulations, higher costs, and refined methodologies (are) likely to lead to decreased animal use."

Althuis TH
Animal models in research. (letter)
Science 1986 May 30;232(4754):1079-80
A reply to Holden. 1 reference

Ichinose LY
Animal models in research. (letter)
Science 1986 May 30;232(4754):1080
A reply to Holden. 1 reference

Manning PJ
Pound dogs as subjects for research and instructional programs.
Minn Vet 1986 Jan;26(1):30-2
A review of the efforts to prohibit use of pound animals in biomedical research and teaching in Minnesota. Arguments opposing such efforts are presented. 4 references

Rose JC
Animals in research: an investigator's perspective.
Pharos 1985 Fall;48(4):19-22
The author presents arguments in favor of worthy biomedical research. He traces the use of laboratory animals in diabetes research and mechanical heart valve development.
10 references

Sherman JF
Challenges to the use of animal models in research, education and testing.
Trans Stud Coll Physicians Phila, Series 5 1985 Dec;7(4):253-60
The animal experimentation controversy, its background, current status, and political implications. The author concludes that the controversy will persist indefinitely and stresses the importance of public support for continued use of laboratory animals. 7 references

The use of animals in research. (letters)
N Eng J Med 1986 Apr 10;314(15)
Burns R p. 993
Saper CB p. 993-4
Sapolsky HM p. 994
Iglehart JK p. 994
Three replies to Iglehart JK, "The use of animals in research." [N Engl J Med 1985 Aug 8;313(6):395-400] (see SBS No. 1986-1. p.12). Followed by a response by Iglehart.

van Bekkum DW
[Animal experiments.]
Ned Tijdschr Geneeskd 1986 Jun 7;130(23):1045-8 (in Dutch)
Laboratory animal welfare laws and animal research committees in the Netherlands and a discussion of alternative methods, refinement as well as public acceptance of animal experimentation. 8 references

van Zutphen LF
[Laboratory animals and animal experiments.]
Tijdschr Diergeneeskd 1986 Feb 1;111(3):121-31 (in Dutch, English summary)
A review of the history of animal experimentation and a discussion of laboratory animal science training in the Netherlands. 28 references

Wyngaarden JB
The physician's stake in animal research. (editorial)
JAMA 1986 Aug 1;256(5):634-5

After dealing with the activities of animal rights groups the writer discusses federal and state legislative activities concerning the use of laboratory animals. He urges physicians, patients, and leaders of local voluntary health agencies to actively support biomedical research in their communities.

MONOGRAPHS

Beyond the laboratory door.
Washington, Animal Welfare Institute, 1985. 266 pp.
Contains a report on alleged violations of the Animal Welfare Act in research laboratories, photographs of experimental animals, and a review of journal articles (1978-84) on research believed to have caused unacceptable suffering in laboratory animals.

Droeven, AnneMarie, ed.
Irrweg Tierversuch: Fakten, Daten, Hintergrunde [Wrong track-animal experimentation: facts, data, background.]
Basel, Switzerland, Lenos Verlag, 1985. 287 pp. (in German)
A collection of articles opposing animal experimentation and criticizing animal welfare legislation.

Fox, Michael W.
Laboratory animal husbandry: ethology, welfare and experimental variables.
Albany, New York, State University of New York Press, 1986. 267 pp.
The author, a veterinarian and ethologist, deals with the relevance of ethology to laboratory animal science. He presents a critique of current laboratory animal care practices and common experimental procedures.

Kellert, Stephen R. and Berry, Joyce K.
A bibliography of human/animal relations.
Lanham, Maryland, University Press of America, 1985. ca. 200 pp.
Includes citations on animal rights and the ethics of animal experimentation. The period covered is 1960-1983 with a few items published prior to 1960.

Regan, Tom, ed.
Animal sacrifices: religious perspectives on the use of animals in science.
Philadelphia, Temple University Press, 1986. 270 pp.
Essays on the teachings of Judaism, Christianity, Islam, Hinduism, Jainism, Buddhism, and Confucianism concerning animal experimentation.

U.S. Congress. Office of Technology Assessment
Alternatives to animal use in research, testing, and education.
Washington, U.S. Government Printing Office (OTA-BA-273), 1986. 441 pp.
An analysis of "the scientific, regulatory, economic, legal, and ethical considerations involved in alternative technologies in biomedical and behavioral research, toxicity testing, and education. Included is a detailed examination of Federal, State and institutional regulation of animal use, and a review of recent developments in 10 other countries."

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